#### CITY OF SHREVEPORT



#### Solicitation Form for Commodities

#### REQUEST FOR QUOTE (When Less Than \$24,999)

RFQ #23-511

#### PURCHASE AND INSTALL ROTATING ASSEMBLY PUMP

INDEX OF RFQ FORMS	Any Reference to Bid shall mean Quote. Any reference to bidder shall mean Quoter.	Page Numbers	
Request for Quotes (DO NOT RETURN WITH QUOTE)		2	
Price Schedule/Signature Page (COS RFQ FORM #1)		3	

NOTE: THE REQUIRED COS RFQ FORM LISTED ABOVE SHOULD BE RETURNED WITH YOUR QUOTE. SHOULD ALSO RETURN ONE COPY. IF ANY OF THE ABOVE COS RFQ FORMS ARE OMITTED, THEN YOUR QUOTE MAY NOT BE CONSIDERED OR ACCEPTED.

#### INDEX OF REFERENCE ITEMS INCLUDED HEREIN

All information listed below **should not** be returned with your quote. It shall remain part of the quote by reference only.

Special Instructions to Bidders	4-8
Adjudicated Property Affidavit	9
Felony Conviction / E-Verify Affidavit	10
Format for the Return Envelope	11
Specifications	12-13

INDEX OF REFERENCE ITEMS **NOT** INCLUDED HEREIN THAT ARE INCORPORATED BY REFERENCE WITH THE SAME FORCE AND EFFECT AS IF SET FORTH IN FULL TEXT. SHOULD ANY OF THESE BE IN CONFLICT WITH THOSE LISTED HEREIN, THE MORE STRINGENT WILL APPLY.

The General Contract Clauses (**Section 20**), the Standard Instructions/Conditions for Request for Proposals (**Section 30**) will no longer be incorporated in solicitations but will be incorporated by reference in the City of Shreveport (hereinafter the City) book of Standard Solicitation Instructions / Provisions and General Contract Clauses; which are available at <a href="https://www.shreveportla.gov">www.shreveportla.gov</a> (click on Business, then on Bids & RFPs). If you do not have a computer, you can use one of the public use computers that are available at the Shreve Memorial Library or at most library branches.

**The Felony Conviction/E-Verify Affidavit** must be submitted by the lowest responsive Quoter after the opening. Revised 02-04-21

#### AN INVITATION FOR YOU TO RESPOND WITH A WRITTEN OR ELECTRONIC QUOTE

Posted Date: May 18, 2023

DO NOT RETURN THIS PAGE-FAXED OR E-MAILED QUOTES NOT ACCEPTED

### Request for Quote (RFQ) City of Shreveport

Renee Anderson, MBA, CPPB Purchasing Agent



#### **QUOTES MUST BE DELIVERED TO:**

City of Shreveport
Office of the Purchasing Agent
Government Plaza-Suite 610
505 Travis Street
Shreveport, LA 71101-3042

OR GO TO BIDSYNC.COM TO SEND ELECTRONIC QUOTE

BID MUST BE RECEIVED NOT LATER THAN 3:00 P.M. ON:

June 1, 2023

THEN PUBLICLY OPENED

THIS IS NOT AN ORDER

**Quote Number** 

RFQ# 23-511

BID TITLE:

#### PURCHASE AND INSTALL ROTATING ASSEMBLY PUMP

PREBID CONFERENCE: N/A

E-MAIL QUESTIONS TO: Dereka.abner-mims@shreveportla.gov

7 working days before the opening or fax

318-673-5408

**BID BOND IS NOT REQUIRED.** 

**Estimated Expenditure:** 

\$ 21,000

per year

Quotes received after the time specified for opening cannot be considered for an award.

#### **ELECTRONIC QUOTES/QUOTE NOTICES**

Quote notices will no longer be mailed to contractors/vendors by the Purchasing Office. The City of Shreveport listing of current bids (IFB), requests for quotes (RFQ), requests for proposals (RFP), and statements of qualifications (RFS) (hereinafter bids) will be posted on BidSync.com. To view the general RFQ information and receive bid/quote notices by email, you will have to register with BidSync. Registration is free. Vendors/Contractors (vendors) will now have the option to submit their bids & bid bonds, electronically or by paper copy [R.S. 38-2212(A)(1)(F) and R.S. 2212.1(B)(4)]. If you wish to view/download the entire quote package and submit electronic quotes, you may do so for a fee. Vendors/Contractors who decide to submit e-bids will also have to pay an annual fee for a digital signature. It takes about two weeks to get a digital signature. Allow additional time to set up the digital signature in BidSync. The City will only be allowed to view the vendors prices after the time has passed for the receipt of Quotes.

Vendors who decide to pay the annual fee to BidSync will be able to submit electronic bids to every agency in the State of Louisiana that signs up with BidSync. Submitting bids electronically can save thousands of dollars in express mail fees, plan fees/deposits, travel, postage, labor, and the cost of paper. Please click the link below to register: <a href="https://www.bidsync.com">https://www.bidsync.com</a> If you need help with registering or with training or with completing an e-bid, please call 800-990-9339 (M-F). Contractors who submit e-bonds will need to pay an annual fee for electronic bid bonds. If an electronic quote is submitted be sure to provide your state contractors license number when the quote with alternates amounts to \$50,000 or more. To request copies of RFQs by e-mail, send your request to dereka.abner-mims @shreveportla.gov.

The City of Shreveport reserves the right to reject any or all quotes and to waive minor informalities.

Important- If you consider the specifications as restrictive or have a problem with this document please contact the Responsible Buyer at least five days before the quote opening at (318) 673-5450

#### PRICE SCHEDULE /SIGNATURE PAGE

(RETURN ONE ORIGINAL OF EACH COS RFQ FORM IN A SEALED ENVELOPE)

#### **COS RFQ FORM #1** (04-25-19)

I agree to furnish all items for the prices as listed below in accordance with all the specifications, terms and conditions listed herein, or with exceptions as listed on the deviation page.

#### RFQ # 23-511 TITLE: PURCHASE AND INSTALL ROTATING ASSEMBLY PUMP

ITEMS BELOW MUST BE COMPLETED BY QUOTER						
ITEM#	QUANTITY (A)	U/M	COMMODITY	UNIT PRICE (B)	TOTAL PRICE (C)	
1	1	EA.	Fairbanks Morse 8" Model B5414 Vertical	\$	\$	

Total Price:  $A \times B = C$ 

When the total Quote with alternates is \$25,000 or more, do a quote for less than \$25,000, then we will reissue this projec	not submit a quote. If there are not any vendors who submit to as an IFB.
Estimated delivery time is:	after receipt of purchase order.
or until:, 20 If date is no	prices listed above for as long as these models are available of provided, then prices will be guaranteed for as long as with successful bidder and other public agencies this bid
additional years in one-year increments with price chang Instructions to Bidders herein.	ract(s), if mutually agreeable with the contractor, for four les limited to paragraph 7, Price Changes, in the Special
Invitation, and subject to all conditions thereof, the bidder of date of opening, to furnish any or all items quoted on at product of the bidder of opening.	e firm for a minimum of 45 days). In compliance with the offers and agrees, if this bid is accepted within 45 days from rices as set forth after the item and to make delivery F.O.B (0) consecutive calendar days after receipt of purchase order AS REQUIRED
submitting a bid for the same items/services and is in all res	preement, or connection with any corporation, firm, or person spects fair and without collusion or fraud. Acting on behalf of ally authorized representative of the above captioned firm, a referenced on the previous page.
COMPANYS NAME/ADDRESS:	The Quoter acknowledges receipt of the following ADDENDA:
AUTHORIZED SIGNATURE(MANUAL):	AUTHORIZED SIGNATURE(TYPED OR PRINTED):
TITLE:	DATE:
PHONE NUMBER(S)	E-MAIL ADDRESS:
Provide Deviations from terms, conditions, provisions	and specifications below & on extra page, if applicable:
PRODUCT BROCHURE & WARRANTY	/ DATA REQUIRED (attach to this page).

1	.0	BROCHURES
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- 1.1 If specifications or descriptive papers are submitted with bids, enter the bidders name thereon.
- 2.0 SAMPLES
- 2.1 Sample, when required, must be submitted free of expense, unless otherwise specified in accordance with the conditions and instructions in the body of this bid notice.
- 3.0 CLARIFICATION/SUBSTITUTION REQUESTS
- 3.1 Bidders requiring additional information may submit their question(s) in writing to the attention of the Buyer as listed on page two.
- 3.2 Answers to questions received that would change and/or clarify this solicitation will be provided in writing to all firms that have received the original Invitation for Bid.
- 3.3 Any inquiry received at least seven (7) or more working days prior to the date fixed for the opening of bids will be given consideration.
- 3.4 Every interpretation made to a Bidder will be in the form of written Addendum to the contract document and when issued will be on file in the Purchasing Agents office.
- 3.4.1 All such addenda shall become part of the Contract Documents and all Bidders shall be bound by such addenda.
- 3.4.2 The City shall not be legally bound by an addendum or interpretation that is not in writing.
- 3.4.3 If the necessity arises to issue an addendum modifying plans and specifications within the seventy-two-hour period (exclusive of holidays, Saturdays and Sundays) before the scheduled bid opening then the opening of bids shall be extended at least seven but not more than twenty-one working days.
- 3.4.4 It shall be the Bidders responsibility to make inquiry as to the addenda issued
- 4.0 DELIVERY ARO
- 4.1 Show delivery time required after receipt of order (ARO), in appropriate space provided on page three.
- 5.0 <u>DELIVERY TERMS</u>
- 5.1 The commodities and/or services must be furnished as described and specified, delivered f.o.b. destination freight prepaid.
- The term f.o.b. destination shall mean delivered, removed from the crate, placed inside of building, and title taken to after acceptance.
- 5.3 Most City buildings do not have loading docks.
- 6.0 QUANTITIES
- 6.1 Whenever quantities or usages are provided by the City, these are estimates only.
- No guarantee or warranty is given or implied by the city as to the total amount that may or may not be purchased from any resulting contracts.
- 6.3 These quantities are for information only and will be used for tabulation and presentation of the prices offered.
- 7.0 PRICE CHANGES
- 7.1 Prices will be firm for the minimum period as specified in the solicitation document.
- 7.2 After the term of the contract, the Consultant may request price increases based on their documented cost increase to be approved by the Public Works Streets and Drainage and the Purchasing Agent
- 7.3 Written requests for price increases must be sent by Certified Mail-Return Receipt Requested.
- 7.4 The City reserves the right to accept or reject the price increase within fifteen days after receipt of the request. Should the City reject the price increase, the City reserves the right to cancel the contract and award to the next best Offeror or to solicit new proposals.

- 7.5 No increase will be effective until approved in writing by the Purchasing Agent.
- 7.6 Any decrease in the cost of the contract items shall be forwarded to the Purchasing Office with immediate inception into the contract.
- 7.7 Any decrease in pricing shall not be less than the appropriate CPI or PPI.
- 8.0 AWARD CRITERIA
- 8.1 The award will be made to the lowest responsible and responsive bidder(s) according to the criteria designated in the RFQ.
- 8.2 In addition to price, the Bid Evaluation will include the following factors (as they apply):
- 8.2.1 The quality of performance/workmanship of previous contracts, services, equipment or products, or references which attest to the specific experiences of others.
- 8.2.2 The timely completion of previous contracts or services or the timely delivery of past orders, or references which attest to the specific experiences of others.
- 8.2.3 The sufficiency of financial resources and its impact on ability of the bidder to perform the contract or provide the services.
- 8.2.4 The City reserves the right to conduct on-site inspections of any bidders facilities prior to award and the results of said inspection will be considered by the City in determining bidders capabilities of successfully administering to this contract.
- 8.2.5 The ability and availability of the bidder to provide both quality and timely maintenance, service, and/or parts.
- 8.2.6 The resale value, life cycle costing (which includes the cost of maintenance) and value analysis.
- 8.2.7 The availability and capability of local and regional vendor support as it affects the quantity, quality, and timeliness of the work or products required.
- 8.2.8 Delivery of a product and timely completion of a project as stated by vendor in the bid.
- 8.2.9 Substantial compliance or noncompliance with specifications set forth in the bid as determined by the City.
- 8.2.10 Product or parts inventory capability as it relates to a particular bid.
- 8.2.11 Results of product/equipment testing.
- 8.2.12 Warranty Terms and Conditions.
- 8.2.13 Adequate capital and credit rating sufficiently to complete all operations under this contract in a satisfactory manner.
- 8.2.14 An efficient office force, with a satisfactory record in expediting delivery of materials to field force and capable of fulfilling proper liaison service with mechanical trades.
- 8.2.15 An adequate and efficient field force, with extensive knowledge of all types of work involved under this contract.
- 8.2.16 A record of amicable relations with labor.
- 8.2.17 An adequate supply of equipment in good operating condition.
- 9.0 Evaluation
- 9.1 Bids may be made for one lot only, or for as many lots as the bidder can supply.
- 9.2 Awards will be made by complete lots and may be made to one or more bidders.
- 10.0 Evaluation of Bids for Multiple Awards
- In addition to other factors, bids will be evaluated on the basis of advantages to the City that might result from making more than one award (multiple awards).
- 10.2 For the purpose of making this evaluation, administrative costs to the City for issuing and administering each contract awarded under this invitation will be considered, and individual awards will be for the items and combinations of items which result in the lowest aggregate price to the City, including such administrative costs.

- 11.0 Alternates
- 11.1 When alternates are requested, the City reserves the right to select the bid with or without these, whichever will be in the best interest of the City.
- 12.0 REJECTION
- 12.1 This solicitation does not commit the City of Shreveport to award a contract, to pay any costs incurred in the preparation of a quote, or to procure or contract for the articles of goods or service.
- The City reserves the right to waive minor informalities, to accept or reject any or all quotes received as a result of this request, or to cancel in part or its entirety this quote, if it is in the best interest of the City to do so.
- The City of Shreveport reserves the right to declare any quote non-responsive in which the delivery/completion time indicated is considered to delay the operation for which the item/work is intended, due to the noncompliance of the SPECIFICATIONS.
- 13.0 Rejection of Lowest Bid
- Substantial negative findings from the Bid Evaluation as listed above, and/or the factors as listed below, may result in the disqualification of the lowest bid, if in the best interest of the City of Shreveport.
- Additional purchase of repair/replacement parts for the low bid item, as opposed to an existing inventory of parts for a higher bid item.
- 13.3 Greater service costs for the low bid item.
- 13.4 Longer service time for the low bid item, which would cause longer down time of the item.
- 13.5 Proven reliability of the higher bid item.
- 13.6 Compatibility of the higher bid item with existing equipment.
- 14.0 <u>DISQUALIFICATION REVIEW BOARD</u>
- When a contractor has been given notice of possible debarment based upon City of Shreveport Code of Ordinance Sec.26-265 and/or disqualification, the contractor may submit a written appeal to the Purchasing Agent for review by the City's Disqualification Review Board.
- The written appeal must be submitted within ten (10) days after notice of possible disqualification and may request either (1) a meeting with the Review Board, or (2) that the Review Board consider a written appeal only.
- 14.3 A meeting of the Review Board will be scheduled within ten (10) days after receipt of the appeal.
- The Review Board will be composed of the Chief Administrative Officer (CAO), City Engineer, Purchasing Agent and the Director of Using Department.
- 14.5 The decision of the Review Board will be given to the contractor in writing ten (10) days after all pertinent information has been considered.
- The decision of the Review Board will not operate as a waiver by the City of its rights concerning the assessment of liquidated damages.
- 15.0 OPERATIONAL MANUALS
- When bidding on equipment, the successful bidder shall be required to furnish one copy of the operational manual and warranty with each type of unit delivered, and one additional copy of the operational manual shall be sent to: Risk Manager, 505 Travis Street Suite 620, Shreveport, LA 71101-3042.
- 16.0 BRAND NAMES
- Wherever in the specifications the name of a certain brand, make, manufacturer, or definite specification is utilized, they are used only to denote the quality standard of the product desired and that they do not restrict bidders to the specific brand, make, manufacturer, or specification named; that they are used only to set forth and convey to prospective bidders the general style, type, character, and quality of the product desired; and that equivalent products will be acceptable.

- 16.2 It shall be the responsibility of the Purchasing Agent and the professionally employed architect or engineer to determine what is considered an equivalent product on any and all projects in which they have been legally employed to perform professional services.
- 17.0 PUBLIC INSPECTION OF BIDS (La. R.S. 44:33 et seg./Attorney General's Opinion No. 95-155)
- 17.1 Bids will be in active use after the opening and therefore will not be available for public inspection until three days after the bid opening, exclusive of Saturdays, Sundays, and legal public holidays.
- 18.0 PAYMENTS DUE THE CITY
- 18.1 Section 26-211 of the Citys Code of Ordinances requires the following:
- 18.1.1 On every contract to which the City is a party and for which written specifications are prepared, the specification shall include the requirement that before the contract is awarded the contractor shall pay all taxes, licenses, fees, and other charges which are outstanding and due to the City.
- 18.1.2 No contract to which the city is a party shall be awarded to any person who:
- 18.1.3 Has not paid all taxes, licenses, fees and other charges which are outstanding and due the city, or
- 18.1.4 Owns any property which is adjudicated to the city or which has demolition liens, grass cutting liens, or any other property standards liens on it, or
- 18.1.5 Owns more than 25% of a legal entity that owns any property which is adjudicated to the city or which has demolition liens, grass cutting liens, or any other property standards liens on it.
- 18.1.6 For purposes of this section, Own shall mean to be the last record owner of property prior to a tax sale or adjudication.
- 18.1.7 Bids/proposals will not be accepted from or contract awarded to any person, firm, or corporations which have at any time failed to execute a contract that has been awarded to them by the City, or which is in arrears to the City upon debt or contract, or which is a defaulter as surety or otherwise upon any obligation to the City.
- 19.0 GOVERNING PRICES
- 19.1 UNIT PRICE BIDS-Prices must be firm and unit prices written in figures shall govern over extended prices. Prices bid must be based upon payment in thirty (30) days after delivery and acceptance.
- 19.2 LUMP SUM BIDS (When unit prices are not required)-Prices must be firm and prices written in words shall govern over prices written in figures. Prices bid must be based upon payment in thirty (30) days after delivery and acceptance.
- 20.0 UNSATISFACTORY WORK-The City shall not be obligated to pay for unsatisfactory work.
- 21.0 PREFERENCE FOR ITEMS MANUFACTURED IN THE UNITED STATES-R.S. 39:1595.7
- In the event a contract is not entered into for products purchased under the provisions of R.S. 39:1595, each procurement officer, purchasing agent, or similar official who procures or purchases materials, supplies, products, provisions, or equipment under the provisions of this Chapter may purchase such materials, supplies, products, provisions, or equipment which are manufactured in the United States, and which are equal in quality to other materials, supplies, products, provisions, or equipment, provided that all of the following conditions are met:
- 21.1.1 The cost of such items does not exceed the cost of other items which are manufactured outside the United States by more than five percent.
- 21.1.2 The vendor of such items agrees to sell the items at the same price as the lowest bid offered on such items.
- 21.1.3 In cases where more than one bidder offers items manufactured in the United States which are within five percent of the lowest bid, the bidder offering the lowest bid on such items is entitled to accept the price of the lowest bid made on such items.
- 22.0 The vendor certifies that such items are manufactured in the United States.

#### 23.0 COMPLIANCE WITH CIVIL RIGHTS LAWS

By submitting and signing this bid, bidder agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, Federal Rehabilitation Act of 1973, as amended, the Veterans Readjustment Assistance Act of 1974, Title IX of The Education Amendments of 1972, the Age Act of 1975, and bidder agrees to abide by the requirements of the Americans with Disabilities Act of 1990. Bidder agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sexual orientation, national origin, veteran status, political affiliation, or disabilities. Any act of discrimination committed by bidder, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation.

#### 24.0 RFQ ENVELOPE

Outside of the envelope to list the Quoters name, address, license number, RFQ number, project name, opening date/time and the Citys address.

#### 25.0 <u>RECEIPT OF QUOTES</u>

25.1 The city does not receive Quotes on holidays and weekends.

**END** 

#### **AFFIDAVIT**



## ATTESTING THAT ENTITY OR PERSON DOES NOT OWN ADJUDICATED OR LIEN PROPERTY AND DOES NOT OWE OUTSTANDING DEBT TO CITY

\* \* This affidavit is submitted to document compliance with Shreveport City Code 26-211. \* \* BEFORE ME, the undersigned Notary Public duly qualified and commissioned, came and appeared authorized representative of: with a Federal Tax Identification Number (EIN) of: and with a current email address of: who does hereby state as follows, to-wit: Business Entity or Person does not own any property which is adjudicated to the City of Shreveport, Louisiana or which has demolition liens, grass cutting liens, or any other Property Standards liens on it. For purposes of this subsection, the term "own" shall mean to be the last record owner of the property prior to a tax sale or adjudication. Business Entity or Person does not own more than twenty-five percent (25%) of a legal entity that owns any property which is adjudicated to the City or which has demolition liens, grass cutting liens, or any other Property Standards liens on it. Business Entity or Person has paid all taxes, licenses, fees, fines and other charges which are outstanding and due to the City. E.g. false alarm fees, property standard fines, over-due water bills. Business Entity or Person will provide written notification to the City's Purchasing Agent no later than the next work day after any of the above statements becomes invalid. Upon request of the Purchasing Agent the City reserves the right to require a newly dated/issued Affidavit. 5 Printed Name: Title: SWORN TO AND SUBSCRIBED BEFORE ME, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_. Notary Public Notary Identification Number or LA Bar Roll Number 

Mail **original** affidavit *via* U.S. mail or Deliver *via* other carrier or hand-delivery to:

Purchasing Division
505 Travis St., Suite 610 | Shreveport, LA 71101

Affidavit must be on file in the Purchasing Office before a contract, purchase order or check is issued.

# City of Shreveport FELONY CONVICTION / E-VERIFY AFFIDAVIT

This document must be furnished by the **lowest responsive Quoter** in a separate envelope, or by fax, or e-mail not later than then 10 days after the RFQ opening. Failure to submit at the specified time may result in the RFQ being declared as non-responsive. **Do not submit in your RFQ document.** 

By signing this document in accordance with La. R.S. 38:2227, the appearer, as a Quoter on the above project,

Bid Number: \_\_\_\_\_

does hereby attest that:

Fax to	: 318-673-5408	OR E-mail to:	DeR	eka.Abner-Min	ns@shreveportla	a.gov (10-2	3-15)
Print N	ame:	E-Mail Addre	ss:				
	Signature of Authorized Owner	er or Representative	Title		Date		
Ву:	Cionatura of Authorities I Com	an an Danna antathus	T:al -		Data		
Phone	Number:	FAX Nu	mber: _				
	SS:						
Compa	any Name:						
And, e	xecutes this document as:						
	ct cancelled, the awarded entity ng, additional costs due to incre ct.						
	ence is submitted substantiating						
3.3	The private employer shall compliance with Paragraphs (				employer a sw	orn affidav	it verifyin
3.2	The private employer shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.						
3.1	The private employer is region employees in the state of Lou						rify that a
3.0	By signing this document in project, does hereby attest		R.S. 38	:2212.10, the	appearer, as a	Quoter on	the abov
2.9	Malfeasance in office (R.S. 14	l:134)		14:202)			
2.7	Forgery (R.S. 14:72)		2.8		misapplication	of payme	ents (R.S
2.5	Issuing worthless checks (R.S	5. 14:71)	2.6	Bank fraud (R	.S. 14:71.1)		
2.3	Theft of a business record (R.	S.14:67.20)	2.4	False account	ting (R.S. 14:70)		
2.1	Theft (R.S. 14:67)		2.2	Identity Theft	(R.S. 14:67.16)		
2.0	Within the past five years from manager, officer, organizer, entity named below has been following state crimes or equipment awarded pursuant to the proving the p	or member who has a new convicted of, or has uivalent federal crimes.	minimur enterec , during	m of a ten per I a plea of gu I the solicitation	rcent (10%) owr ilty or nolo cont on or execution	nership in t endere to of a contr	he bidding any of the
1.3	Corrupt influencing (R.S. 14:1	20)	1.4	Money launde	ering (R.S. 14:23	3)	
1.1	Public bribery (R.S. 14:118)		1.2	Extortion (R.S	•		
1.0	No sole proprietor or individual minimum of a ten percent (1 entered a plea of guilty or note	0%) ownership in the to contendere to any of the	oidding ne follov	entity named ving state crime	below has beer es or equivalent	convicted	of, or ha

FROM:				
l icense	#			

PLEASE RUSH TO:

# CITY OF SHREVEPORT OFFICE OF THE PURCHASING AGENT 505 Travis Street-Suite 610 SHREVEPORT, LOUISIANA 71101-3042

SEALED QUOTE FOR:	
RFQ Number:	
Project Name:	
Opening Date:	

Attention: Use this format on the outside of your container when responding to all solicitations. We do not accept fax or electronic responses for formal solicitations! (10-20-11)

## Wastewater Division, Department of Water and Sewer Specification

Fairbanks Morse Model B5414
Rotating Assembly
North Pierre Lift Station
555 E Flournoy Lucas Road
Shreveport, LA, 71115

#### **GENERAL:**

The Contractor will furnish and install a quantity of 1 Fairbanks Morse 8" Model B5414 Vertical dry pit non-clog pump rotating assembly. The new rotating assembly shall be an exact dimensional and hydraulic equivalent of the existing. Only OEM parts and equipment shall be acceptable.

#### **Conditions of Operation:**

Each pump shall be capable of providing the following hydraulic conditions:

Design Conditions Capacity: 2100 GPM

Total Dynamic Head: 83' TDH Maximum Speed: 1180 RPM Maximum Solid Size: 4 Inches

#### **Rotation:**

The pump will be clockwise rotation when viewed from the driver end looking at the pump.

#### Impeller:

The impeller shall be balanced non-clogging type made of close-grained cast iron conforming to ASTM A48 Class 30. The impeller shall be of one-piece, single suction, enclosed multi-vane, radial flow design with well-rounded leading vanes and then tapered toward the trailing edge for a circular flow pattern. The waterways through the impeller will have extremely smooth contours, devoid of sharp corners, so as to prevent rags or stringy, fibrous materials from catching or clogging. The clearance between the impeller outside diameter and cutwater shall be capable of passing a 4" sphere. The impeller is to be balanced and secured to the shaft by means of a bolt, washer, and key. The arrangement shall be such that the impeller cannot be loosened from the torque in either forward or reverse rotation. Wiper vanes on the back-impeller shroud are not allowed.

#### Backhead:

A separately cast close-grained cast iron backhead with large access openings and integral sealing box conforming to ASTM A48 Class 30 shall be provided. The sealing box shall be designed for use with mechanical seal without requiring re-machining. The sealing box shall be furnished with a 1/4" injection and vent tap for a clear water or grease connection to a water seal ring to prevent air from entering the pump through the sealing box. A 3/4" minimum backhead drain tap shall be provided. Sealing box leakage shall be collected by the backhead drain trough and piped directly to drain, eliminating any drippage to the floor.

#### Frame:

The bearing frame shall be closed-grained cast iron conforming to ASTM A48 Class 30 and of heavy, rugged design for carrying the bearings and machined for accurate and permanent bearing alignment completely enclosing the shaft between the bearings. The bearing housing shall be of dust-proof design, incorporating liptype grease seals in contact with the shaft to prevent the entrance of contaminants. Jacking bolts for external impeller adjustment are required. Zerk-type grease fittings for bearing lubrication shall be supplied at the bearing housings.

#### **Shaft Assembly:**

The pump shaft shall be high-strength alloy steel with a minimum 100,000 PSI tensile strength and 75,000 PSI yield strength of sufficient diameter to carry the maximum loads imposed and to prevent vibration and fatigue.

The shaft shall be accurately machined along its entire length and precision ground at bearing locations. Keyways shall be provided at both ends. A renewable straight (tapered on C5416) shaft sleeve, positive adhesive sealed to prevent leakage between the shaft and the sleeve, shall protect the shaft through the sealing box area. The shaft sleeve shall be stainless steel with a Brinell hardness of 300-350.

Radial (inboard) bearings shall be (single-row on T20, T30 & T40 frames] (double-row on T60 frame] grease-lubricated ball bearings designed to carry the hydraulic radial loads encountered in the service conditions. Thrust (outboard) bearings shall be [single-row on T20 & T30 frames] (double-row on T40 & T60 frames] designed to carry the pump hydraulic axial and dead load thrust. Bearing shall be designed for an L10 life of 100,000 hours per AFBMA at best efficiency point.

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